NLRP3 Inflammasome

Activation, Signaling & Regulation

info@adipogen.com
www.adipogen.com

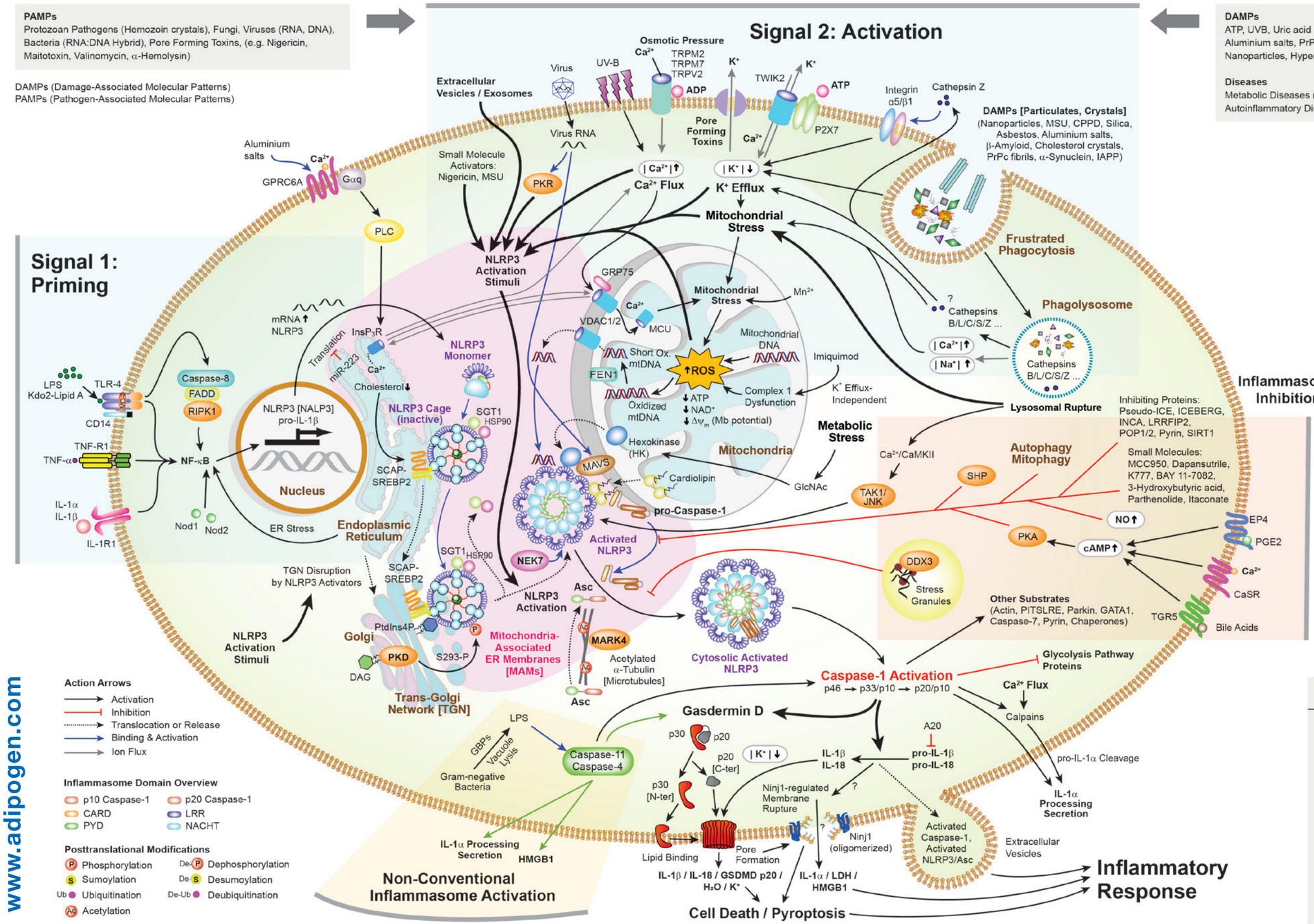
AdipoGen® LIFE SCIENCES

PAMPs
Protozoan Pathogens (Hemozoin crystals), Fungi, Viruses (RNA, DNA), Bacteria (RNA:DNA Hybrid), Pore Forming Toxins, (e.g. Nigericin, Maitotoxin, Valinomycin, α-Hemolysin)

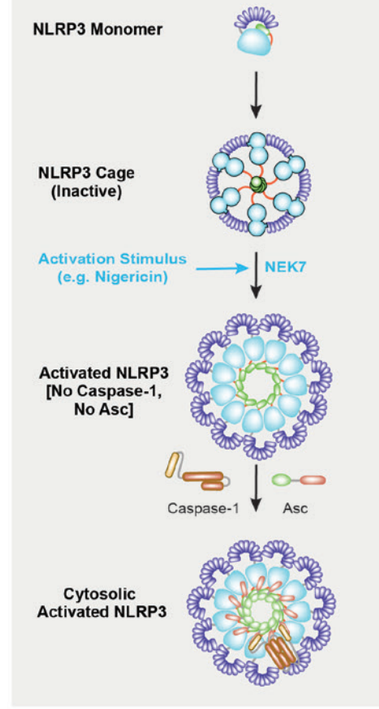
DAMPs (Damage-Associated Molecular Patterns)
PAMPs (Pathogen-Associated Molecular Patterns)

DAMPs
ATP, UVB, Uric acid crystals, β-Amyloid, Fibrils, Asbestos, Cholesterol crystals, CPPD, Aluminium salts, PrPc fibrils, α-Synuclein, Saturated fatty acids, Siliva, High fat diet, IAPP, Nanoparticles, Hyperglycemia, Hypoxia, Acidosis, Tissue injury, Cell death, Cell stress

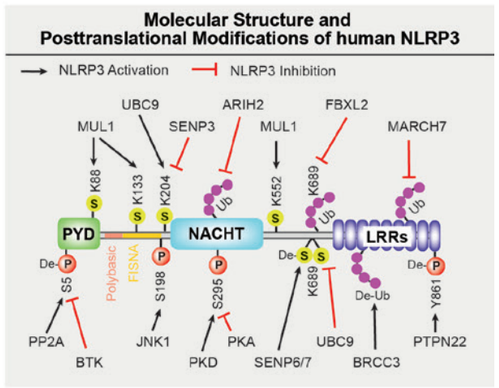
Diseases
Metabolic Diseases (Obesity, Type 2 Diabetes, Cardiovascular), Cancers, Gout, Allergy, Autoinflammatory Diseases, Neurodegenerative Diseases (Alzheimer's, Parkinson)



Model for NLRP3 Activation leading to Inflammasome Signaling



Molecular Structure and Posttranslational Modifications of human NLRP3



www.adipogen.com